

SAMPLING RESULTS SUMMARY FOR DRUMMED SOLID MATERIAL
IDEAL COOPERAGE SITE
JERSEY CITY, HUDSON COUNTY, NEW JERSEY

	LAB BLANK (UG/L)	FIELD BLANK (UG/L)	SAMP 001 DRUM MAT (UG/KG)	SAMP 002 DRUM MAT (UG/KG)
VOLATILES ORGANICS				
METHYL CHLORIDE	ND	ND	ND	ND
METHYL BROMIDE	ND	ND	ND	ND
VINYL CHLORIDE	ND	ND	ND	ND
CHLOROETHANE	ND	ND	ND	ND
METHYLENE CHLORIDE	ND	ND	ND *	ND *
ACETONE	ND	ND	ND	ND
CARBON DISULFIDE	ND	ND	ND	ND
1,1-DICHLOROETHYLENE	ND	ND	ND *	ND *
1,1-DICHLOROETHANE	ND	ND	ND *	ND *
1,2-TRANS DICHLOROETHYLENE	ND	ND	ND *	ND *
CHLOROFORM	ND	ND	ND *	ND *
1,2-DICHLOROETHANE	ND	ND	ND *	ND *
2-BUTANONE	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	ND	ND	ND *	ND *
CARBON TETRACHLORIDE	ND	ND	ND *	ND *
VINYL ACETATE	ND	ND	ND	ND
DICHLOROBROMOMETHANE	ND	ND	ND *	ND *
1,2-DICHLOROPROPANE	ND	ND	ND *	ND *
1,3-DICHLOROPROPYLENE	ND	ND	ND	ND
TRICHLOROETHYLENE	ND	ND	ND *	ND *
CHLORODIBROMOMETHANE	ND	ND	ND *	ND *
1,1,2-TRICHLOROETHANE	ND	ND	ND *	ND *
BENZENE	0.06 M	ND	ND *	ND *
CIS-1,3-DICHLOROPROPENE	ND	X	ND	ND
BROMOFORM	ND	ND	ND *	ND *
4-METHYL-2-PENTANONE	ND	ND	ND	ND
TETRACHLOROETHYLENE	ND	ND	ND *	ND *
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND *	ND *
2-HEXANONE	ND	ND	28000	24000
TOLUENE	ND	ND	ND *	ND *
CHLOROBENZENE	ND	ND	ND *	ND *
ETHYLBENZENE	ND	ND	ND *	ND *
STYRENE	ND	X	ND	ND
XYLENES (TOTAL)	ND	X	ND	ND
TENTATIVELY IDENTIFIED COMPOUNDS				
6-METHYL-2-HEPTANONE	X	X	18000 J	21000 J
2-NONANONE	X	X	1400000 J	X
2-HEPTANONE	X	X	450000 J	440000 J

	LAB BLANK (UG/L)	FIELD BLANK (UG/L)	SAMP 001 DRUM MAT (UG/KG)	SAMP 002 DRUM MAT (UG/KG)
BASE NEUTRALS				
2-CHLOROPHENOL	ND	ND	ND *	ND *
2-NITROPHENOL	ND	ND	ND *	ND *
PHENOL	ND	ND	ND *	6500 M
2,4-DIMETHYLPHENOL	ND	ND	ND *	ND *
2,4-DICHLOROPHENOL	ND	ND	ND *	ND *
2,4,6-TRICHLOROPHENOL	ND	ND	ND *	4000 M
P-CHLORO-M-CRESOL	ND	ND	ND *	13000 M
2,4-DINITROPHENOL	ND	ND	ND	ND
4,6-DINITRO-O-CRESOL	ND	ND	ND *	ND *
PENTACHLOROPHENOL	ND	ND	13000 M	62000 M
4-NITROPHENOL	ND	ND	ND	ND
1,3-DICHLOROBENZENE	ND	ND	ND *	ND *
1,4-DICHLOROBENZENE	ND	ND	ND *	ND *
1,2-DICHLOROBENZENE	ND	ND	ND *	ND *
HEXACHLOROETHANE	ND	ND	ND *	ND *
HEXACHLOROBUTADIENE	ND	ND	ND *	ND *
1,2,4-TRICHLOROBENZENE	ND	ND	ND *	ND *
NAPHTHALENE	ND	ND	ND *	ND *
BIS(2-CHLOROETHYL) ET.	ND	ND	ND *	ND *
BIS(2-CHLOROETHOXY) METH.	ND	ND	ND *	ND *
ISOPHORONE	ND	ND	ND *	ND *
NITROBENZENE	ND	ND	ND *	ND *
N-NITROSODI-N-PROPYLAMINE	ND	ND	ND *	ND *
N-NITROSODIPHENYLAMINE	ND	ND	ND *	ND *
BIS(2-CHLOROISOPROPYL) ET.	ND	ND	ND *	ND *
HEXACHLOROCYCLOPENTADIENE	ND	ND	ND *	ND *
2-CHLORONAPHTHALENE	ND	ND	ND *	ND *
ACENAPHTHYLENE	ND	ND	ND *	ND *
ACENAPHTHENE	ND	ND	ND *	ND *
FLUORENE	ND	ND	ND *	ND *
HEXACHLOROBENZENE	ND	ND	ND *	ND *
4-BROMOPHENYL PHENYL ET.	ND	ND	ND *	ND *
PHENATHRENE	ND	ND	ND *	ND *
ANTHRACENE	ND	ND	ND *	ND *
DIMETHYL PHTHALATE	ND	ND	ND *	ND *
DIETHYL PHTHALATE	0.2 M	ND	ND *	ND *
DI-N-BUTYLPHTHALATE	0.6 M	ND	ND *	ND *
BUTYL BENZYL PHTHALATE	ND	ND	ND *	4800 M
DI-N-OCTYL PHTHALATE	ND	ND	ND *	ND *
BIS(2-ETHYLHEXYL) PHTHAL.	0.9 M	ND	ND *	ND *
FLUORANTHENE	ND	ND	ND *	ND *
PYRENE	ND	ND	ND *	ND *
CHRYSENE	ND	ND	ND *	8000 M
1,2-BENZANTHRACENE	ND	ND	ND *	6500 M
4-CHLOROPHENYL PHENYL ET.	ND	ND	ND *	ND *
INDENO(1,2,3-C,D) PYRENE	ND	ND	ND *	ND *
BENZO(A)PYRENE	ND	ND	ND *	ND *
1,12-BENZOPERYLENE	ND	ND	ND *	ND *
1,2:5,6-DIBENZANTHRACENE	ND	ND	ND *	ND *
3,3'-DICHLOROBENZIDENE	ND	ND	ND *	ND *

	LAB	FIELD	SAMP 001	SAMP 002
	BLANK	BLANK	DRUM MAT	DRUM MAT
	(UG/L)	(UG/L)	(UG/KG)	(UG/KG)

BASE NEUTRALS (CONTINUED)

2,6-DINITROTOLUENE	ND	ND	ND *	ND *
2,4-DINITROTOLUENE	ND	ND	ND *	ND *
1,2-DIPHENYLHYDRAZINE	ND	ND	ND *	ND *
3,4-BENZOFLUORANTHENE	ND	ND	ND	ND
11,12-BENZOFLUORANTHENE	ND	ND	ND	ND
BENZYL ALCOHOL	ND	ND	ND *	ND *
2-METHYL PHENOL	ND	ND	ND *	ND *
4-METHYL PHENOL	ND	ND	4000 M	4600 M
BENZOIC ACID	ND	ND	ND *	ND *
4-CHLOROANILINE	ND	ND	ND *	ND *
2-METHYL NAPHTHALENE	ND	ND	ND *	ND *
2,4,5-TRICHLOROPHENOL	ND	ND	ND *	ND *
2-NITROANILINE	ND	ND	ND *	ND *
3-NITROANILINE	ND	ND	ND *	ND *
DIBENZOFURAN	ND	ND	ND *	ND *
4-NITROANILINE	ND	ND	ND *	ND *
ANILINE	X	ND	ND *	ND *

	LAB BLANK (UG/L)	FIELD BLANK (UG/L)	SAMP 001 DRUM MAT (UG/KG)	SAMP 002 DRUM MAT (UG/KG)
PESTICIDES AND PCBs				
ALDRIN	ND	ND	ND	ND
DIELDRIN	ND	ND	ND	ND
CHLORDANE	ND	ND	ND	ND
ALPHA CHLORDANE	ND	ND	ND	ND
BETA CHLORDANE	ND	ND	ND	ND
GAMMA CHLORDANE	ND	ND	ND	ND
4,4'-DDT	ND	ND	ND	ND
4,4'-DDE	ND	ND	ND	ND
4,4'-DDD	ND	ND	ND	ND
ALPHA ENDOSULFAN	ND	ND	ND	ND
BETA ENDOSULFAN	ND	ND	ND	ND
ENDOSULFAN SULFATE	ND	ND	ND	ND
ENDRIN	ND	ND	ND	ND
ENDRIN ALDEHYDE	ND	ND	ND	ND
ENDRIN KETONE	ND	ND	ND	ND
HEPTACHLOR	ND	ND	ND	ND
HEPTACHLOR EPOXIDE	ND	ND	ND	ND
ALPHA-BHC	ND	ND	ND	ND
BETA-BHC	ND	ND	ND	ND
GAMMA-BHC	ND	ND	ND	ND
DELTA-BHC	ND	ND	ND	ND
METHOXYCHLOR	ND	ND	ND	ND
TOXAPHENE	ND	ND	ND	ND
PCB-1016	ND	ND	ND	ND
PCB-1221	ND	ND	ND	ND
PCB-1232	ND	ND	ND	ND
PCB-1242	ND	ND	ND	ND
PCB-1248	ND	ND	ND	ND
PCB-1254	ND	ND	ND	ND
PCB-1260	ND	ND	ND	ND

	LAB BLANK (UG/L)	FIELD BLANK (MG/L)	SAMP 001 DRUM MAT (MG/KG)	SAMP 002 DRUM MAT (MG/KG)
TOTAL METALS AND CYANIDES				
SILVER	X	ND	ND	ND
ALUMINUM	X	0.081 M	256.0	190.0
ARSENIC	X	ND	ND	0.5 M
BARIUM	X	ND	8.00	8.13
BERYLLIUM	X	ND	ND	ND
CALCIUM	X	0.2 M	3080	3470
CADMIUM	X	ND	ND	ND
COBALT	X	ND	7.77	7.83
CHROMIUM	X	ND	14.0	13.3
COPPER	X	ND	32.6	38.6
IRON	X	ND	4599	5678
MERCURY	X	ND	ND	ND
POTASSIUM	X	32.3 J	123.9 J	97.2 J
MAGNESIUM	X	0.2	170.0	166.0
MANGANESE	X	ND	62.3	65.9
SODIUM	X	0.34 J	2416 J	2356 J
NICKEL	X	ND	957	955
LEAD	X	ND	30.8	27.8
ANTIMONY	X	ND	ND	ND
SELENIUM	X	ND	ND	ND
THALLIUM	X	ND	ND	ND
VANADIUM	X	ND	1.37	1.25
ZINC	X	ND	81.1	78.6
CYANIDES	X	X	ND	ND

KEY:

- J : INDICATES AN ESTIMATED VALUE.
- M : INDICATES PRESENCE OF MATERIAL VERIFIED, BUT NOT QUANTIFIED.
- ND : INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED.
- ND * : INDICATES COMPOUND WAS ANALYZED FOR BUT NOT DETECTED AT ELEVATED DETECTION LIMITS.
- X : INDICATES COMPOUND WAS NOT ANALYZED.

Table 2

RESULTS FROM FIELD TESTING OF DRUMS AT IDEAL COOPERAGE SITE, NOVEMBER 10, 1989

SAMPLE #	SAMPLE STATE	HNU READING	WATER SOLUBILITY	HEXANE SOLUBILITY	SPECIFIC GRAVITY	PH	FLAMMABILITY TEST
T-1	LIQUID, CLEAR	0	100 %	0 %	1.000	6-7	FAILS
T-2	LIQUID, RUSTY	0	100 %	0 %	1.000	6-7	FAILS
T-3	LIQUID, RUSTY	0	100 %	0 %	1.000	6-7	FAILS
T-4	SOLID, BLACK	0	0 %	100 %	N/A	5-6	MELTS
T-5	LIQUID, SOAPY	0	100 %	0 %	NOT DONE	8	FAILS
T-6	SOLID, BLACK	0	0 %	100 %	N/A	6	MELTS
T-7	SOLID, BLACK	0	0 %	100 %	N/A	5	MELTS
T-8	LIQUID, CLEAR	150	100 %	0 %	NOT DONE	1	FAILS

OBSERVATIONS AND CONCLUSIONS:

SAMPLES T-1, T-2, T-3: DRUMS CONTAIN WATER, PROBABLY RAINWATER

SAMPLES T-4, T-6, T-7: SAMPLES HAD A CRAYON-LIKE ODOR AND WAXY CONSISTENCY AFTER FLAME TEST
DRUMS CONTAIN AN ORGANIC SOLID

SAMPLE T-5: DRUM CONTAINS WATER WITH SURFACTANT

SAMPLE T-8: SAMPLE HAD A VINEGAR ODOR;